

ABSTRACT OF THE DISCLOSURE

A method, apparatus, and system provide the ability for storing holograms at high speed. A single laser diode emits a collimated laser beam to both write to and read from a photorefractive crystal. One or more liquid crystal beam steering spatial light modulators (BSSLMs) or Micro-Electro-Mechanical Systems (MEMS) mirrors 5 steer a reference beam, split from the collimated laser beam, at high speed to the photorefractive crystal.

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